2708

ASSET	DESCRIPTION OF ASSET APPLICATION FOR SCENARIO DEVELOPMENT
SOURCE SHIFTING	
GROUNDWATER STORAGE SOUTH OF THE DELTA (WATER ACQUISITION)	Kern Water Bank: Potential for 100 kaf on annual basis for three years if first years of a drought; 90,000 aft in years that KCWA gets 100% allocation in wetter years. Use former in emergencies, and in early years of EWA. Vidler Water Compancy: Opportunities include lease of groundwater storage space (49,000 af), and water acquisition (6.300 af) Semitropic: Potential for approximately100 kaf – possibly more (at 20 kaf/month in/out)
INCREASED BANKS PUMPING CAPACITY	◆ Options: Acquire options on water north and south of the Delta ◆ Increase pumping capacity by 500 cfs in year 2000 (70,000-90,000 af) ◆ Increase pumping capacity to 6.6 kcfs Nov – March + 1/3 SJR. ◆ Increase pumping capacity to 8.5 kcfs July – Sept ◆ Increase pumping capacity to 7.1 kcfs July - Sept
FLEXING E/I RATIO	◆ Options include shifting averaging period from 14 days to 3 days without changing ratio itself; or relaxing ratio under certain Delta conditions Example: Relaxation of E/I in 2000 Ops plan = X af
ACCESS TO SURPLUS PROJECT CAPACITY	Access to San Luis Reservoir and non-project capacity (i.e., Castaic, Eastside)
MARKETS (WILLING SELLER)	 Purchase of water for multiple purposes; provide incentives to sellers Purchase of in-Delta water from willing sellers Purchase PG&E reoperation water and pay for foregone power production (30-100 kaf?)
SHASTA DAM EXPANSION RIGHT TO BORROW SURPLUS STORAGE CAPACITY AND SURPLUS WATER	◆ Addition of flash boards on Shasta Dam would increase storage capacity by 50 TAF ◆ Borrow surplus storage from Arvin-Edison for San Joaquin River re-watering project
CHANGE FLOOD CONTROL DIAGRAMS	 May be limited to the San Joaquin and Stanislaus Rivers Pursue other small-scale projects in Stage 1 in addition to above efforts (TNC has ideas for pilot projects) Need to increase run-off prediction skill (watershed model) Could improve reservoir use by relaxing flood fill curves on flood

	operations
PUMPING TO	♦ Good general strategy for expansion of conjunctive use opportunities by
STORAGE	optimizing use of groundwater/surface water Source Shifting
	♦ Would require additional facilities to maximize use otherwise benefits
	could be relatively small
	Could result in spilling of stored water
	+
	Specific proposals to examine for Stage 1:
	Tie Castaic storage to San Luis lowpoint
	2. Pump out to increase the likelihood of filling San Luis
INTERTIE	◆ DMC capacity less than pumping capacity (by 400cfs)
	♦ Need to determine real benefit of intertie when linked to other assets
	(i.e., JPOD, expanded Banks)
	♦ When tied to increasing Banks capacity construction/use of intertie
	becomes a staging issue
RICE FIELD	◆ Could increase opportunities to spread water on fields, manage drainage
FLOODING	to enhance instream flows if diversions were screened, water quality
	impacts not an issue, and dollars available for expansion
· · ·	◆ Limited integration into scenarios
CVPIA: SHIFTING	Borrow water from refuges for EWA/WMS
REFUGE SUPPLIES	◆ Fund conservation measures without decreasing benefits to refuges
	♦ Use refuges as small-scale storage projects.
	♦ Shift conveyance to refuges to free-up space in DMC to convey
	WMS/EWA water.
	◆ Discuss above possibilities with DU, Grasslands, CWA
TAKE LIMITS	Determine whether easy or difficult to apply flexibly
	♦ Identify other issues regarding flexing and application
SUISUN GATE	Determine whether easy or difficult to apply flexibly
OPERATIONS	♦ Identify other issues regarding flexing and application
REGULATORY	♦ X2
FLEXIBILITY	♦ Take limits
	For each determine difficulty of applying flexibly, constraints, etc. and
	whether application as "asset" in Stage 1 is feasible/probable, etc.
ERP	◆ Integrate water acquired for ERP flows with WMS/EWA water
ACQUISITION OF IN-	• Reduce application and subsequent run-off/seepage of pesticides, etc., from in-
DELTA ISLANDS	Delta islands
FROM WILLING	
SELLERS	
Manage	Relocate Delta agricultural drains
DISCHARGE FROM	
In-Delta Islands	
MANAGE SALINITY	♦ Relocate Delta agricultural drains
AND SELENIUM	
Inputs	<u> </u>

	DELTA CROSS	+	◆ Operate to freshen Delta
	CHANNEL		
	Ноор-	+	Operate pilot project to freshen Delta
	MOKELUMNE		
	CONNECTOR		
	OTHER WATER	+	
	QUALITY ASSETS?		
_	CONTROL ALGAL	÷ ?3	77
	GROWTH IN CCF		